Docket No. PTGF-03095

## **AMENDMENTS TO THE CLAIMS:**

Please amend the claims as follows:

- 1. (Currently amended) A light emitting apparatus, comprising:
- a light emitting element with an emission wavelength in the a range of 360 to 550 nm; and
- a rare-earth element doped oxide nitride phosphor; phosphor, wherein a part of light radiated from the light emitting element is wavelength-converted by the phosphor.
- 2. (Currently amended) The light emitting apparatus according to claim 1, wherein; wherein:

the emission wavelength is in the range of 450 to 550 nm, nm; and the light emitting apparatus radiates white light generated by a mixture of the wavelength-converted light and the an other part of light radiated from the light emitting element.

- 3. (Currently amended) The light emitting apparatus according to claim 1, wherein: wherein: the oxide nitride phosphor is of comprises an oxide nitride that contains α-sialon as a matrix material.
- 4. (Currently amended) The light emitting apparatus according to claim 1, wherein; wherein: the phosphor is in the form of comprises a powder or particles and is contained in a light transmitting material.

- 5. (Currently amended) The light emitting apparatus according to claim 1, wherein: the light emitting element is comprises a III group nitride system compound semiconductor emitting element.
- 6. (Currently amended) The light emitting apparatus according to claim 1, wherein; wherein:

the phosphor is represented by a general formula:

$$Me_XSi_{12-(m+n)}Al_{(m+n)}O_nN_{16-n}:Rel_yRe2_z$$

part or all of metal (Me), where Me is one or more of Li, Ca, Mg, Y and lanthanide metals except for La and Ce, to be dissolved into α-sialon being replaced by lanthanide metal (Re1), where Re1 is comprises one or more of Ce, Pr, Eu, Tb, Yb and Er, as a luminescence center, or replaced by lanthanide metal (Re1) and lanthanide metal (Re2), where Re2 is comprises Dy, a co-activator.

- 7. (Currently amended) The light emitting apparatus according to claim 6, wherein; wherein: the phosphor satisfies, when the metal (Me) is bivalent, 0.6 < m < 3.0 and</li>
   0 ≤ n < 1.5 in the general formula.</li>
- 8. (Currently amended) The light emitting apparatus according to claim 6, wherein: wherein: the phosphor satisfies, when the metal (Me) is trivalent, 0.9 < m < 4.5 and  $0 \le n < 1.5$  in the general formula.

- 9. (Currently amended) The light emitting apparatus according to claim 6, wherein; wherein: the phosphor is comprises  $Me_XSi_{9.75}Al_{2.25}O_{0.75}N_{15.25}$ :  $Re1_yRe2_z$  to satisfy m=1.5 and n=0.75 in the general formula, where 0.3 < x + y < 0.75 and 0.01 < y + z < 0.7, where y > 0.01, and  $0.0 \le z < 0.1$ , are satisfied.
- 10. (Currently amended) The light emitting apparatus according to claim 6, wherein; wherein:

the phosphor is comprises  $Me_XSi_{9.75}Al_{2.25}O_{0.75}N_{15.25}$ :  $Rel_yRe2_z$  to satisfy m=1.5 and n=0.75 in the general formula, where 0.3 < x + y + z < 1.5, 0.01 < y < 0.7 and  $0.0 \le z < 0.1$  are satisfied.

11. (Currently amended) The light emitting apparatus according to claim 6, wherein; wherein:

the metal (Me) is comprises calcium (Ca).

12. (Currently amended) The light emitting apparatus according to claim 1, wherein; wherein:

the phosphor is comprises a sialon system phosphor powder that is composed of: α-sialon of 40 weight% or more and 90 weight% or less, the α-sialon being structured such that a Ca site of Ca-α-sialon represented by: (Cax, My)(Si, Al)<sub>12</sub>(O, N)<sub>16</sub> is partially replaced by metal (M); (M), β-sialon of 5 weight% or more and 40 weight% or less; less, and unreacted silicon nitride of 5 weight% or more and 30 weight% or less, where M is comprises metal that is one or more selected from Ce, Pr, Eu, Tb, Yb and Er and

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0.05 < (x+y) < 0.3, 0.02 < x < 0.27 and 0.03 < y < 0.3.

13. (Currently amended) The light emitting apparatus according to claim 12, wherein; wherein:

the entire phosphor powder has a chemical composition that is in the range of three composition lines of Si<sub>3</sub>N<sub>4</sub>-a(M<sub>2</sub>O<sub>3</sub>·9AIN), Si<sub>3</sub>N<sub>4</sub>-b(CaO·3AIN) and Si<sub>3</sub>N<sub>4</sub>c(AlN·Al<sub>2</sub>O<sub>3</sub>), where  $4 \times 10^{-3} < a < 4 \times 10^{-2}$ ,  $8 \times 10^{-3} < b < 8 \times 10^{-2}$  and  $10^{-2} < c < 8 \times 10^{-1}$  are satisfied.

14. (Currently amended) A light emitting apparatus, comprising:

a light emitting element with an emission wavelength in the range of 360 to 550 nm; and

a cerium ion doped lanthanum silicon nitride phosphor; phosphor, wherein a part of light radiated from the light emitting element is wavelengthconverted by the phosphor.

15. (Currently amended) The light emitting apparatus according to claim 14, wherein: the phosphor is represented by:

 $La_{1-x}Si_3N_5$ :xCe, where doping amount x is 0 < x < 1, and cerium ion is doped to <u>a</u> lanthanum site in <u>a</u> solid dissolution replacement.

- 16. (Currently amended) The light emitting apparatus according to claim 14, wherein: the  $\underline{a}$  doping amount x is 0.1 < x < 0.5, and the phosphor is  $\underline{\text{comprises an}}$  ultraviolet ray excitation phosphor.
- 17. (Currently amended) The light emitting apparatus according to claim 14, wherein: the  $\underline{a}$  doping amount x is 0.0 < x < 0.2, and the phosphor is comprises an electron beam excitation phosphor.
- 18. (Original) The light emitting apparatus according to claim 14, wherein: the phosphor radiates blue light.
- 19. (Currently amended) A light emitting method for a light emitting apparatus that comprises a light emitting element with an emission wavelength in the <u>a</u> range of 360 to 550 nm and a rare-earth element doped oxide nitride phosphor, wherein <u>a</u> part of light radiated from the light emitting element is wavelength-converted by the phosphor, and the light emitting apparatus radiates light generated by a mixture of wavelength-converted light and the <u>an</u> other part of light radiated from the light emitting element, comprising the step of:

  turning on intermittently the light emitting element.
- 20. (Currently amended) A light emitting method for a light emitting apparatus that comprises a light emitting element with an emission wavelength in the <u>a</u> range of 360 to 550 nm and a cerium ion doped lanthanum silicon nitride phosphor, wherein <u>a</u> part of light radiated from the light emitting element is wavelength-converted by the phosphor, and the light

emitting apparatus radiates light generated by a mixture of wavelength-converted light and the

an other part of light radiated from the light emitting element, comprising the step of:

turning on intermittently the light emitting element.

- 21. (Currently amended) The light emitting method according to claim 19, wherein:

  the <u>a</u> color of the light radiated from the light emitting apparatus is adjusted by controlling the <u>a</u> turn-on time of the light emitting element.
- 22. (Currently amended) The light emitting method according to claim 20, wherein:

  the <u>a</u> color of the light radiated from the light emitting apparatus is adjusted by controlling the <u>a</u> turn-on time of the light emitting element.
- 23. (Original) The light emitting method according to claim 19, wherein:

  the emission wavelength is in the range of 450 to 550 nm, and the light emitting apparatus radiates white light.
- 24. (Original) The light emitting method according to claim 20, wherein:

  the emission wavelength is in the range of 450 to 550 nm, and the light emitting apparatus radiates white light.
- 25. (Currently amended) The light emitting apparatus according to claim 19, wherein; the light emitting element is comprises a III group nitride system compound semiconductor emitting element.

26. (Currently amended) The light emitting apparatus according to claim 20, wherein; the light emitting element is comprises a III group nitride system compound semiconductor emitting element.